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## IN THE CLAIMS

 (Currently amended) An implantable therapy delivery and / or diagnostic device, comprising:

a fixation element adapted to secure the device to an implant site; one or more elongate conductors extending within the device;

a polymeric layer overlaying a portion of the device in proximity to the implant site and including an outer surface; and

a layer of a catalytic agent, having nitrite reductase and / or nitrate reductase, or nitrosothiol reductase activity, present on the outer surface of the polymeric layer;

wherein the catalytic layer converts nitrite/nitrate or nitrosothiols <u>found</u> solely in the blood to nitric oxide <del>when in contact with blood</del>.

- (Original) The device of claim 1 wherein the polymeric layer is formed of a
  material selected from the group consisting of silicone, polyurethane, PTFE and
  expanded PTFE.
- (Original) The device of claim 1, wherein the polymeric layer further includes a bulk matrix containing a reservoir of lipophilic salts or nitrite/nitrate or nitrosothiols that can leak to the layer of catalytic agent.
- (Original) The device of claim 1, further comprising an elongate body, which carries the one or more conductors, and wherein the polymeric layer forms the device body.
- (Original) The device of claim 4, wherein the polymeric layer is a multilumen tube.

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6. (Original) The device of claim 4, further comprising a coil electrode coupled to a one of the one or more conductors and overlaying the outer surface of the polymeric layer; wherein the one of the one or more conductors includes an electrically conductive wire.

- 7. (Original) The device of claim 4, further comprising a coil electrode coupled to a one of the one or more conductors and partially imbedded in the outer surface of the polymeric layer; wherein the one of the one or more conductors includes an electrically conductive wire.
- (Original) The device of claim 1, further comprising an elongate body, which carries the one or more conductors, and wherein the polymeric layer overlays the device body.
- 9. (Original) The device of claim 8, wherein the device body is a multilumen tube.
- 10. (Original) The device of claim 8, further comprising a coil electrode coupled to a one of the one or more conductors and overlaying the outer surface of the polymeric layer; wherein the one of the one or more conductors includes an electrically conductive wire.
- 11. (Original) The device of claim 8, further comprising a coil electrode coupled to a one of the one or more conductors and partially embedded in the outer surface of the polymeric layer; wherein the one of the one or more conductors includes an electrically conductive wire.
- (Original) The device of claim 8, wherein the polymeric layer includes a plurality of pores extending therethrough and the device body contains a

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reservoir of lipophilic salts or nitrite / nitrate or nitrosothiols which can leak to the layer of catalytic agent.

- 13. (Original) The device of claim 8, further comprising a coil electrode coupled to a one of the one or more conductors and overlaying the device body; wherein the one of the one or more conductors includes an electrically conductive wire and wherein the polymeric layer extends over the coil electrode and allows electrical conduction therethrough.
- 14. (Original) The device of claim 8, wherein the polymeric layer further includes a bulk matrix containing a reservoir of lipophilic salts or nitrite/nitrate or nitrosothiols that can leak to the layer of catalytic agent.
- 15. (Original) The device of claim 1, further comprising: a physiological sensor capsule coupled to the one or more conductors; wherein the outer surface of the polymeric layer overlays a portion of the sensor capsule; and

the one or more conductors includes an electrically conductive wire.

- 16. (Original) The device of claim 1, further comprising a polymeric plug held within the polymeric layer, the polymeric plug containing a reservoir of lipophilic salts or nitrite/nitrate or nitrosothiols that can leak to the layer of catalytic agent.
- 17. (Original) The device of claim 1, further comprising:
- a distal tip electrode coupled to a one of the one or more conductors and adapted to stimulate the implant site;
- a polymeric plug held within the polymeric layer and containing a reservoir of lipophilic salts or nitrite/nitrate or nitrosothiols that can leak to the layer of catalytic agent;

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electrode:

wherein the layer of catalytic agent is positioned in close proximity to the tip electrode; and

the one of the one or more conductors includes an electrically conductive wire

- 18. (Original) The device of claim 17, wherein the polymeric plug is formed of a material selected from the group consisting of silicone and polyurethane.
- (Original) The device of claim 1, wherein the catalytic agent comprises a biocatalytic agent.
- (Original) The device of claim 1, wherein the catalytic agent comprises a biomimetic catalytic agent.
- 21. (Original) The device of claim 20, wherein the biomimetic catalytic agent comprises a Cu(II) metal ion ligand complex.
- 22. (Currently amended) An implantable medical electrical lead comprising: a distal fixation element adapted to secure the medical electrical lead to an implant site:

one or more elongate electrical conductors;

an electrode coupled to a one of the one or more conductors, adapted to stimulate in proximity to the implant site and including an outer surface; and a layer of a catalytic agent, having nitrite reductase and / or nitrate reductase, or nitrosothiol reductase activity, attached to the outer surface of the

wherein the catalytic layer converts nitrite/nitrate or nitrosothiols <u>found</u> <u>only in the blood</u> to nitric oxide <del>when in contact with blood</del> .

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- 23. (Original) The lead of claim 22, wherein the electrode further includes a porous side wall and further comprising a polymeric plug held within the electrode side wall; the plug containing a reservoir of lipophilic salts or nitrite/nitrate or nitrosothiols that can leak through the porous sidewall to the layer of catalytic agent.
- 24. (Original) The lead of claim 23, wherein the polymeric plug is formed of a material selected from the group consisting of silicone and polyurethane.
- 25. (Original) The lead of claim 22, wherein the catalytic agent comprises a metal ion ligand complex.
- 26. (Original) The lead of claim 22, further comprising a porous layer overlaving the layer of catalytic agent.
- (Currently amended) An implantable therapy delivery and / or diagnostic device comprising:

a body including a sidewall having a plurality of pores;

a plug held within the porous sidewall and including a layer of catalytic agent, having nitrite reductase and / or nitrate reductase, or nitrosothiol reductase activity present on an outer surface of the plug;

wherein the catalytic layer, exposed to blood through the plurality of pores, converts nitrite/nitrate or nitrosothiols <u>only in the blood</u> to nitric oxide <del>when in contact with the blood</del>.

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28. (New) An implantable therapy delivery and / or diagnostic device, comprising:

a fixation element adapted to secure the device to an implant site; one or more elongate conductors extending within the device; a polymeric layer overlaying a portion of the device in proximity to the implant site and including an outer surface; and

a layer of a catalytic agent present on the outer surface of the polymeric layer;

wherein the catalytic layer converts nitrite/nitrate or nitrosothiols, found originally only in the blood, to nitric oxide.